2021 FARM BILL FUNDED PROJECTS

Total awarded to North Carolina Department of Agriculture & Consumer Services: $1,267.999.71

GRANTEE & PROJECT	AMOUNT	PROJECT SUMMARY
APPALACHIAN SUSTAINABLE AGRICULTURE PROJECT (ASAP) *Specialty Crops in Early Childhood Education*	$125,000	The Farm to Preschool program will increase knowledge and consumption of NC specialty crops in underserved communities by training Early Childhood Educators on variety, nutrition and engagement with local farmers.
NC STATE UNIVERSITY *UAV Bio-surveillance of CDM*	$77,850	An unmanned ariel vehicle (UAV) bio-surveillance system for precision disease management will be established to combat the effects of cucurbit downy mildew.
NC STATE UNIVERSITY *PIVC*	$85,840	Precise indoor vine conditioning (PIVC) protocols to optimize the fruiting capacity of grapevines that can be planted and cropped in the same year.
NC STATE UNIVERSITY *Mitigating Soilborne Diseases in Floriculture Crops*	$125,000	The project will establish protocols to combat Phytophthora crown and root rot issues for the greenhouse floriculture industry.
NC STATE UNIVERSITY *Greenhouse Production of Strawberry in NC*	$54,190	Reuse of existing greenhouse structures for the production of strawberries will be researched. Guidelines for NC growers will be established.
NC STATE UNIVERSITY *Extending Shelf Life in New Markets*	$100,000	Tests will be conducted with various storage conditions to extend the life of NC muscadine grapes bound for export to world markets.
NC STATE UNIVERSITY *Genetic Understanding of HWA-Susceptibility in Hemlocks*	$125,000	An integrative approach will be undertaken to understand the genetic response to hemlock woolly adelgid (HWA) infestation in hemlock species. The proposal builds upon ongoing research in developing a CRSPR genome editing system for hemlocks
NC STATE UNIVERSITY *Management of Sweet Potato Bacterial Postharvest Diseases*	$81,439	Integrated management strategies for bacterial soft rot in sweet potatoes will be developed. Determinations will be made on which bacterial pathogens are causing disease, identifying effective chemicals that benefit both organic and export markets.

NC STATE UNIVERSITY *Improved Christmas Tree Health Through Genomics*	$150,000	The goal is to accelerate the genetic improvement of Fraser Fir Christmas Trees against Phytophthora Root Rot.
NC STATE UNIVERSITY *Protecting Pollinators in Ornamental Plant Production*	$100,000	IPM tactics will be developed to reduce the use of neonicotinoid insecticides. The goal is to benefit pollinators while finding alternative treatments which positively affect the expenses and revenues for ornamental growers.
NC SWEET POTATO COMMISSION *Controlling GRKN in Sweet Potato Packing Facilities*	$166,763	In cooperation with NCSU researchers, a rapid-response test will be developed to identify the presence of Guava Root-Knot Nematode (GRKN), a debilitating disease that affects the quality and appearance of sweet potatoes